

REMARKS

The application has been amended to place the application in condition for allowance at the time of the next Official Action.

The specification is amended to include section headings.

Claims 1-3 are pending in the application.

Claims 1-3 are rejected as anticipated by GIBBINS 3,744,446. This rejection is respectfully traversed.

Claim 1 is amended and recites that an area defined by a cross-section of the cavity is substantially constant in a direction perpendicular to the longitudinal axis over the length of the cavity upstream of the propeller.

By way of example, Figures 3a-3e of the present application show a cross-section of the hull including the cavity. As seen in each of Figures 3a-3e, there is a cross-hatched section indicated by the letter "A". Such cross-hatched section A has substantially the same area for each of the cross-sections of Figures 3a-3e as set forth on page 3, lines 3-7 of the application as filed.

GIBBINS teaches that a surface area of the channel remains constant as a wetted area throughout the length of the channel. As seen in Figures 9 and 10 of GIBBINS, each of the progressive sections labeled 4-8 in GIBBINS have the same surface area as represented by the triangle 31.

In order to fully appreciate the difference between GIBBINS and that which is recited, a sheet for explanation purposes only is submitted herewith. As seen in the explanatory sheet, the rectangular regions 31 of GIBBINS are turned on their side as a triangle. By calculating the area under the triangle taking an arbitrary length of the side as 2, it can be seen that when the angle of the triangle is varied, but keeping the surface area of the upper part of the triangle constant (as taught by GIBBINS), the surface area under the triangle (cross-sectional area) decreases as the base of the triangle increases.

In contrast, as recited in claim 1, the area defined by a cross-section of the cavity is substantially constant over a length of the cavity.

As the reference does not disclose that which is recited, the anticipation rejection is not viable. Reconsideration and withdrawal of the rejection are respectfully requested.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any

overpayment to Deposit Account No. 25-0120 for any additional
fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

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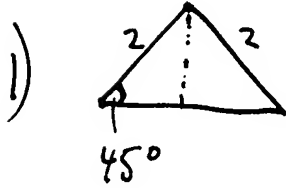
APPENDIX:

The Appendix includes the following item:

- an explanatory sheet

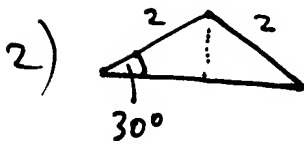
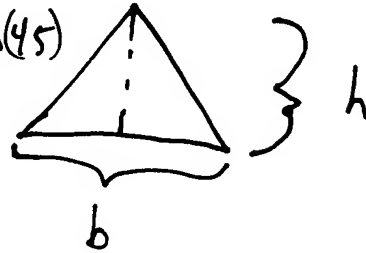


Explanatory Sheet



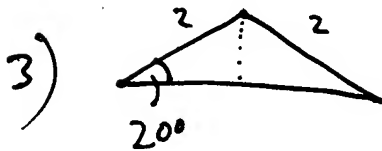
$$\frac{h}{2} = \sin(45)$$
$$h = 2 \cdot \sin(45)$$

$$\frac{b}{2} = \cos(45)$$
$$b = 2 \cdot \cos(45) \cdot 2$$



$$h = 2 \cdot \sin(30)$$

$$b = 2 \cdot \cos(30) \cdot 2$$



$$h = 2 \cdot \sin(20)$$

$$b = 2 \cdot \cos(20) \cdot 2$$

Area of a triangle = $\frac{1}{2} b \times h$

1) $= \frac{1}{2} \times 2.828 \times 1.414 = 2$

2) $= \frac{1}{2} \times 3.464 \times 1 = 1.732$

3) $= \frac{1}{2} \times 3.759 \times 0.684 = 1.286$